PATENT

ATTORNEY DOCKET NO.: SCF-53-CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re Application of: Alonzo W. Beasley, Jr.)	Examiner: Singh, Arti R.
Serial No.: 10/684,639)	Art Unit: 1771
Filed: October 14, 2003	Deposit Acct. No.: 04-1403
Title: Motor Vehicle Airbag and) Fabric For Use in Same)	Client ID: 22827

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR 1.131

Dear Commissioner:

- I, Alonzo W. Beasley, Jr., do hereby declare that:
- 1. This application was filed on October 14, 2003, but claims the benefit of Application Serial No. 09/558,766, filed April 26, 2000.
- 2. I have been advised that all claims of the application were rejected as being unpatentable over the disclosure of U.S. Patent No. 6,455,449 to Veiga et al. issued on September 24, 2002, and filed on September 3, 1999.
- 3. The present invention resides in the discovery that urethane-coated airbag fabrics may include a base fabric made from finer denier yarns of alternating deniers which produces a crest and trough pattern on the surface that enhances urethane adhesion.

- 4. As supported by the factural evidence submitted herewith, the claimed invention was conceived and, on information and belief, was reduced to practice prior to September 3, 1999.
- 5. The originals of Exhibits A through C discussed hereinafter in detail were all prepared prior to September 3, 1999. Actual dates and prospective customer name have been deleted.
- 6. As evidenced by Exhibit A, a base fabric of 315d warp and alternating fill of 315d and 210d denier was prepared. This fabric was designated style 4934. The first two pages of Exhibit A make up the request from the inventor for a sample of this fabric. Note that the "enduse" of the fabric is indicated to be "airbag". The third page of Exhibit A is a "Sample Specification" for this fabric. The fourth page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit A.
- 7. Exhibit B indicates that another sample of style 4934 was prepared. This base fabric also had 315d warp and alternating fill of 315d and 210d denier. The first page of Exhibit B is a "Sample Specification" for this fabric. The third page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit B.
- 8. As evidenced by Exhibit C, a base fabric of 420d warp and alternating fill of 420d and 315d denier was prepared. This fabric, designated style 4951, was requested by the document making up the first two pages of Exhibit C. After the base fabric was made,

it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit C.

- A style 4934 base fabric was sent to the prospective customer (a coater), 9. whereupon a urethane coating was applied. Satisfactory adhesion levels were reported.
- I hereby declare that all statements made herein of my own knowledge are 10. true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Alonzo W. Beasley, Jr.

Date: 6/09/06

PROD. REQ. & COST FORM

TO: EDINGISCO DEDOVA		DATE	
TO: FRANCISCO EEDOYA			=======================================
I. MARKETING	GILOT C/H	C/R# /0 -	- ミチ >
CUSTOMER:	CUST. S/#		
Similar 52		1.1	
SCFTI 5/#: 4938-02 W	EAVE: Plan	ENDUSE: ALLG:	LEVEL 9
36212 07 111			
GR. (MIN/NOM.)	ETN /MIN /NOM.)		YES NO
		WARP SIZE O	K <u>×</u>
ENDS/IN: 55	60	SPUN YARN T	
PICKS/IN: 14 to Su Back	63-65		
	69.5 - 7c.5	HI. TEN REQ	<u> </u>
WARP: 315 / 144 /T-	147 AK201		_ OLD/NEW
WARP: 3/5 / 144 / T-44 FILL: 3/5 / 144 / T-44 SCFTI PROCESS: 2/0/68 / R		Dras (28 B
	(2 sun) (las 13	BOYN / DIEK-	OLD/NEW
FILL: 3/3 / /44 / /-44	/ RLO T		
210/68/8	2-20 Dulout Nylor	• • • • • • • • • • • • • • • • • • • •	
SCFTI PROCESS:	-	TENCTU DANCE	510.10
GREIGE			
HEATSET IN THE GR.		PC. LENGTH	200
•	SPI	LICES ALLOWED	eses.
APPLY & FINISH	PAC	CKAGING _	3h Soil
APPEL & LINION	· ·	the wowand in ole	or shots
		Cula wayred in old FINISH C	ODE: 9026
DESCRIBE FINISH:			
, , , , , , , , , , , , , , , , , , , ,		ከጅሞኛሽ •	
CFM RANGE: NA CUST. COPY OF CUST. SPEC ATTACH	SPEC # 7700.	DATED.	CEDE DEO Y/N
COPY OF CUST. SPEC ATTACH	ED(rest req. 1/m) (CERT REQ I/M
DEPT#:			
II. TECHNICAL			
TYPE LOOM: pheniam MUI	TIPLE PICKS - YES	(NO) EQUIVALENT PIC	KS: N/A
TIPE LOOM: SECURIOR MOI	WADD IN	PLANT & NEW YARNS	ONLY)
YARDS PER BEAM:	(WARP IN		,
	er er	TV. CO O OFF IM	PTCKS. (4.D)
CONST. IN LOOM: REED WIL	TH: $Q1.25$	SI: STAD OFF IM	110100
	• •		
WARP: 315 144 1 72 447	arro		
	4k70	.0	
FILLING: 218/64/220 800	of assissant P	IER Hel poet	
MADE ADE LES AND	FILLIN	IG YDS/LB: 14.150 = 315	m 4 21250 = 210 deca
WARP YDS/LB: N. 150			
EST. WARP CONTRACTION:	570	1 11 -	
REMARKS:	Samp	x frat -	
		DATE:	•
SIGNATURE:	1	hour DATE:	
	=======================================	: = = = = = = = = = = = = = = = = = = =	
PROCESSES REQUIRED: (CIRC	LE AS APPLICABLE)		
		FINAL T	ESTING
		The state of the s	NTERNAL
WINDING DORNI			UST. LOT
TWISTING (IN/OUT) SULZE		MI. VINDEEL	
WARPING (IN/OUT)	CAN DRY	41-21-41	ONSTD.
(BLOCK/TRANS.)	CONTACT HT SE	T SHIP P	PAP
	CALENDER/TENT		NNUAL
BEAMING/SLASHING	CAMERIDER ENT		UAL.
		W.	
		و قبل بمعالیت بیان وقت فقت مقتل مقتل مقتل بیشتر ب	

K.

III. ENGINEERING LOOMS/WEAVER: OTHER:	
IV. COST DEPARTMENT	DATE FWDED:
YDS/LOOM TARGET CONTRIBUTION 120 HRS. LOOM/WK YD	FAB. WT. OZ./SQ. YD.
COST: VAR./YD: B/E/YD: B/E/YD:	MIN. YD: TAR.YD:
YARN PRICE: WARP: FILL: SPECIAL INSTRUCTIONS:	·
DISCLAIMERS/COMMENTS:	
A. has adhesm public	, with low Beniess before
B. Rua Ohis do Pattern 02.	
C. Pick insertion should BE. I	I And I of two felling
D. Low Tensor on warp open	
E. His is chial ONLY	
	•
SUBMITTED BY	DATE:
APPROVED BY MARKETING MGR. Jon Ball for St	Short DATE:
APPROVED BY DIR. TECH. SVCS K. BELL.	DATE:
REJ. APPR TECH. SERV. MGR. K. B. S.	DATE:
APPROVED BY MFG. REF. COMM. K. Bats	DATE:
	NDERSON S. DUERK NDERWOOD D. HARVELL

AGE

ER LISTING Sample by delfication STYLE M

NTS FABRIC

INC.

ECHNOLOGIEL.

AFRIY COMPr.

Airbag - driver uncoated / VARIOUS Dornier general L. BEASLEY 52.000 26.000 81.23 4,224 68 10 Primary customer: Department no: Product code: Requested by: Reed width: Blay count: Denta/Inchi Loom type: Ends/dent: No. ends: 8tatus: 1 end 420/68 dk.blue nylon 24 ends from left side at slasher 8 harness and 6 banks of drop wires, 71% air space reed BF-44C-4% SOLIDS IN SIZE BOX, 1% STRETCH ON SLASHING PICK AND PICK HITH 2 FILLING YARNS ß 10 64.00 Lavel Weave picks/inch: Dupont t-6.6 nylon Heat slit at loom Low Warp tension 315,210 60 x 64 M4934-0002-9026 Elther Plain 200 Heave cut (yds) Descriptions Type size: Fabrica Others Edges: Heaver Styles FACO:

Supplier: ACORDIS INDUSTRIAL FIBERS 315/144 T-447 HRT-8 Acordia Scottaboro Nylon Airbag Beams RMNL1539 Fill yarn code Descriptions TWIBEI Hergei

ACORDIS INDUSTRIAL PIBERS

Suppliers

RMNL1538

Narp yarn code

315/144 T-447 HRT-8 Acordia Scottsboro Nylon Airbag Tubes Descriptions TWIBE Nerge:

70.00 60 x 64 Target Finished Max 70.50 Roll Goods 69.50 11 02 Midth (in): Putup coda: Hold code: CFN godes Tare wt: 76.00 Target Rat. Off Loom 76.50 56 x 65 54 x 63 75.50 See final inspection instructions See final inspection instructions See final inspection instructions nylon coáting fabric (Air bag) Count (H x F); Width (in); 0.628 1.59 Weight (lbs/yd); Std wt (yds/1b): Tube sixe: Packagingi Purposei Gradinge

4.93 62 x 66 By: TK 08/22/1999 4.93 58 x 62 Revision date: Current revi Count (H x F): Mt (oz/syd) : 4.71 55 x 64 4.73 4.71 Mt. (ox/syd) : c/r #10-387 var. W4934-01 3.00 AB Allow day &: Comments

4.93

RMNL 1618 210/68 R20 T-729 TUBES FROM DUPONT

FILLING YARN #2

original

Sourcefech Systems, Inc., Charlotte, NC - All rights reserved

1015 (12/97)

pyright 1997 by

(QHS-102, 103)

WARPING ORDER

F-1017 11/98

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 I	EXP2	TYPE	E CLOTH:	NYLON CO	DATING A	IR BAG	s		-	DATE:		
NO. BEAMS: 1	REED SPREAD:	81.23*	DENT REED:	26.00	ENDS DENT:	2	TOTAL DENTS		SLEY:	52.00	SHAFTS:	8
DRAW: STRAIGH	T WEAVE:	PLAIN	EST % CONT:	8%	TYPE LOOM:	DORNI	ER		DIST. BTWN BM. HEAD:		_	
DRAW. STRAIGH	BODY		•		•	SELV			TOTAL	4005		
DEPT.: 10	ENDS:	4224	•			ENDS:	1		ENDS: WEIGHT		•	
SELVAGE:	** 1 END 4	20/68 DEN	DARK BL	UE NYLON	- HEAT S	SLIT AT	LOOM	-	PER YARD:		•	
FILLING A:	315/144/T-	447 AKZO	SCOTSBO	RO NYLON			PICKS	32	WT/YD:	.1959		
was 1 4510 th.	040/89/P.0	0 DUPONT	NYI ON				PICKS:	. 32	WTYD:	.1305		1
FILLING B: *INCLU	DES 22 D	ENTS EA	CH SIDE	FOR CAT	CH CO	RD,LE			(21,250)			1
FILLING C:							PICKS:		WT/YD:		•	i
, 1041110											-	1
WARP A:	315/144/T~	447 AKZO S	SCOTTSB	ORO NYLOI	N	N	D. ENDS:	4224	WT/YD:	.3245		
		- NO CUT							(14,150)			
WARP B:				S FROM LE	FT	, NO). ENDS:		WT/YD:			1
WARP C:	EDGE AT	SLASHE	R		<u></u>	NO	D. ENDS:		WT/YD:	····		
	WARPING	LAYOUT	, , , , , , , , , , , , , , , , , , , 		<u>, ,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	MAY AL	SO BE W	APED	SEELOW		••••	;
												i
12 - BMS @	0	352	0				BMS @				1	1
	SELV.	BODY A	SELV.				•	SELV.	BODY	SELV.		1
- BMS @					_	·	BMS @					Ì
· · · · · · · · · · · · · · · · · · ·	SELV.	BODY A	SELV.				BMS @	SELV.	BODY	SELV.		
- BMS @ .	SELV.	BODY	SELV.		•		DIVIO (G	SELV.	BODY	SELV.		
		·								 -		[[[
	DEND TICK! EST.	ET:	ACT.%		GR	OUND			OVERALL			1
GREIGE WIDTH	WEIGHT_		CONT			OUNT			COUNT:		1	
SSUED BY: FRAM	ICISCO BEI	DOYA		kanen	DA	re: _		<u> </u>				

BURTON, REESE, HALEY, HAVER, B.JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN R. DEATHERAGE (3), FRANCISCO BEDOYA (3)

D-10

TEST CONDITIONS: 72°F / 65% R.H.

BEST AVAILABLE COPY

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MARUFACTURER: Safety Components Fabric Tech. Inc.

Dunean Plant

Greenville, SC

CUSTOMER ID:

TOT: 20699

TEST DATE:

SPECIFICATION: TED

HATERIAL: 94934-02-9	026	LOT:	20699	1	EST DATE:	SESCIFICATION: 150	
Piece No. Sample No.	86617			Spe Re	cification quirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TRESILE	427	0	0	Hin:		Pounds	ASTM-D-5034
FILLING	389	0	0	Hin:		Pounds	ASTH-D-5034
ELONGATION WARP	42	C	0	Min:	Hax:	Percent	ASTH-D-5034
PILLING	44"	0	0	Hin:	Hax:	Percent	ASTN-D-5034
TORGUE TEAR WARP	27	. 0	0	Hin:		Pounds	ASTH-D-2261
PILLING	26	0	0	Hin:		Pounds	ASTA-D-2261
TRAPEZOID TEAR WARP	0	0	0	Hin:		Pounds	ASTH-D-4533
FILLING	0	0	0	Min:		Pounds	ASTR-D-4533
SHRINKAGE Warp	1.56	0.00	0.00		Hax:	Percent	1 HR & 300 F
FILLING	0.00	0.00	0.00		Yax:	Percent	1 HR @ 300 P
FLANKUBILITY	0.0	0.0	0.0		Max:	II/HIN	PHVSS-302
BOR					Max:	Percent	
SIAS					Nax:	Percent	
EEE	5.14	0.00	0.00	Hin:	Nax:	02/YD2	15TH-D-3776
IDI	70.0	0.0	0.0	Nin:	Hax:	INCHIS	15794-D-3774
SMDS	59.4	0.0	0.0	Min:	Hax:	EPI	ASTR-D-3775
TCKS	63.4	0.0	0.0	Hin:	Hax:	PPI	ASTM-D-3775
ODY THICKNESS	.010	0.000	0.000	Min:	Max:	Inches	ASTN-D-1777
DYNAMIC AIR PERN ADAP				Min:	Hax:	m/sec	T.B.D.
EXPONENT				Nin:	Max:		T.B.D.

Material: W4934-02-9026

lot: 20699

Page 2 of 2

Piece No.				.Sp	ecification equirement	UHIT OF HEASURE	TEST PROCEDURES
Sample No.	86617		-	A	Eyull Calant		1 mm h 2267
HULLEN BURST HET				Hin:	•	PSI	1STA-D-3786
p#	7.5			Hin:	Hax:	pH units	FTR 191
EXTRACTABLES (1)	.2				Kax:	Percent	JPS 701
DYE STAIR	5			Min:	4	ANTOC CROCK DRITS	JPS 701
AIR PERHEABILITY	0.00	0.00	0.00	Kin:	Har:	CPA	ASTR-0-737
AND CETUDEUCC							
CANTILEVER STIFFUESS WARP	0.0	0.0	0.0	Hin:	Max:	NG/CH2	ASTH-D-4032
FILL	0.0	0.0	0.0	Min:	Har:	NG/CH2	λSTK-D-4032
	<u> </u>		J				
CIRCULAR BEND HARP	.700	0.000	0.000	Kin:	Har:	Pounds	ASTR 4032
PILL	.700	0.000	0.000	Hin:	Hax:	Pounds	ASTH 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results me shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOHBE LAB DIRECTOR (864) 240-2624

F-1065 (5/96)

[WI-2021]

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

LIBTING	Spacification
≓ .	Bracit
SIXIE M	Sample

YTS PABRIC

FRTY COMPC

CHNOLOGIES, INC.

			•	•
icy181	M4934-0003-9026 Level: IV			•
eacription: 'abric:	115 60 x 64 Adordís U/W: YD LOW Warp tension 8 harness and 6 banks of drop wires, 71% air space reed Dupont t-6.6 nylon Plain PICK AND PICK HITH 2 FILLING YARNS HEAVE 3 LOTS	Btatua; Department no: Product code; Loom type: Primary customer: Requested by:	ACT 10 89 Airbag - driver uncoated Dornier general L, BEASLEY	
eave cut (yds); 'dges; 'ype size; 'ther;	Rither 200 Weave picks/inch: 64.00 Heat slit at loom BF-44C-4* SOLIDS IN SIZE BOX.1% STRETCH ON SLACHING 1 end 420/68 dk.blue nylon 24 ends from left side at slasher	Reed width: Dents/inch: Ends/dent: * Bley count: No. ends:	81.23 26.000 2' 52.000 4,224	BEST
acription: wise:	RMNL1538 Supplier: ACORDIS INDUSTRIAL FIBERS 315/144 T-447 HRT.8 Acordis Scottsboro Nylon Airbag Beams None			AVAIL
ill yarn dode: escription: wist: erge:	RMNL1539 Bupplier: ACORDIS INDUSTRIAL FIBERS 315/144 T-447 HRT-8 Acordis Scottsboro Mylon Airbag Tubes . None		•.	ABLE CO
ackaging: rading:	See final inspection instructions See final inspection instructions	Hold code:	02	PY

	Target
;	Bat. Finished Max
02 11 Roll Goods	Min Bet
Hold gode: Putup code: Tare wt: CFM gode:	
	Target
	KBC. UIL LOOM Max
uctions uctions bag) uctions	Nin 75 50
See final inspection instructions See final inspection instructions nylon coating fabric (Air bag) See final inspection instructions	Midth (1n):
See fina See fina nylon co See fina	1,59
ackaging: rading: urpose: ube size:	td wt (yds/lb);

				Rat. Off Loom			i G		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No.	1	•		ABE: FINISHED	•
td wt (yds/1b);	1.59	#147 / 127 .	L C		Jak Twe		Kin	Max	Target
eight (lbs/vd):	6.628	199 Hones	05.57	76.50	76.00	Wideh (in);	69.50	70.50	70.00
llow day &:	00 6		E9 x eq	56 x 65	55 x 64	Count (N x F);	58 x 62	62 x 66	60 x 64
		MC (OK/ Byd) :	4.71	4.71	4.71	Ht (ox/svd):	F 63	60 4	
The state of the s			***************************************				-	77.	. r
AB C/r #10-407 as M4934-02	10-407 a	IB #4934-02	•			Current revi	000		

¥

08/10/1999

Revision date:

ORIGINAL

FILLING YARN #2

RMNL 0051 210/72 T-447 HRT TUBES FROM ACORDIS, 1004 AKZO

yright 1997 by SourceTech Systems, Inc., Charlotte, NC - All rights reserved

WARPING ORDER

F-1017 11/98

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

NO. BEAMS: 1	REED SPREAL		DENT REED:	26.00	ENDS DENT:	2	TOTAL DENTS:		SLEY:	52.00	SHAFTS:
	14 1PP 4 1 1PP	or AIAI	EST % CONT:	8%	TYPE	DORNI	C D		DIST. BTWN BM. HEAD:		
DRAW: STRAIGH	BODY		_ CON1.	070	LOOM.	SELV		-	TOTAL	-	
DEPT.: 10						ENDS:	1	_	ENDS:	4225	
	-		-					_	WEIGHT		
SELVAGE	1 END	420/68 DEN	. DARK B	LUE NYLON	- HEAT S	SLIT AT	LOOM	-	PER YARD:	.0001	
FILLING A:-	315/144/	T-447 AKZO	SCOTSBO	ORO NYLON			PICKS:	32	. WT/YD:	.1959	:
	الالطويون _{ا ب} وهوين يو			· · · · · · · · · · · · · · · · · · ·			-		(14,150)		
FILLING B:	210772/12	-20 ACORDI	S 100% T.	-447 HRT FR	OM AKZ	0	PICKS:	32	WTMD:	.1305	
	 -	DENTS EA					-		(21,250)		
FILLING C:					 		PICKS:	-	wtyd:		-
	•			***			· · · · · · · · · · · · · · · · · · ·			· ·	
WARP A:	315/144/7	-447 AKZO	SCOTTSB	ORO NYLON	٧	NO	D. ENDS:	4224	WT/YD:	.3245	
	NO TIN	T - NO CU	MARK	3					(14,150)		
WARP B:		AT SLASHE		S FROM LE	FT	NC	D. ENDS:		WT/YD:		_
	EDGE A	T SLASHE	R			NC). ENDS:		WT/YD:		
WARP C:						140	7. EHDG.		141,110		
	WARPING	S LAYOUT				MAY AL	SO BE W	RPEC	AS BELOW	A	7
								2 4			R.
12 - BMS @			0		-		BMS @	SELV.	BODY	SELV.	•
	SELV.	BODY A	SELV.					waita ¥ .		Winte Y.	
- BMS @					_		вмѕ @			·	•
- BMS @	SELV.	BODY A	SELV.				BMS @	SELV.	BODY	SELV.	
- DIVIO LO	SELV.	BODY	SELV.		,		-	SELV.	BODY	SELV.	•
FOR HEAL	שבאה דורי	ΚΕΤ ·		, , , , , , , , , , , , , , , , , , ,	····		-				
	EST.		ACT.%		GR	OUND	•		OVERALL		
IDTH	WEIGHT		CONT		, C	_ דאעס			COUNT:		1

CC: BEASLEY, BURTON, REESE, HALEY, HAVER, B.JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.

Dunean Plant

Greenville, SC

INFORMATION ONLY

CUSTOMER ID:

TEST COMDITIONS: 72 F / 65% R.H.

TEST DATE:

SPECIFICATION: TED

HATERIAL: W4934-03-96	026 ^[7]	LOT:	21138	TEST	r Date:	5, 543.	
Piece No. Sample No.	17530	17540		Specii Requ	fication irement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	450	442	0	Kin:		Pounds	ASTH-D-5034
FILLING	379	389	0	Min:		Pounds	ASTN-D-5034
elongation Warp	38	38	0	Kin:	Xax:	Percent	ASTH-D-5034
FILLING	39*	40#	0	Hin:	Xar:	Percent	ASTH-D-5034
TOEGUE TEAR	28	27	0	Hin:		Pounds .	ASTH-D-2261
FILLING	27	27	0	Hin:		Pounds	ASTH-D-2261
TRAPEZOID TEAR	0	0	0	Hin:		Pounds	AST#-D-4533
WARP PILLING	. 0	0	0	Nin:		Pounds	ASTH-D-4533
SHRIMKAGE	1.56	1.56	0.00		Mar:	Percent	1 HR @ 300 F
WARP	.31	.31	0.00		Nax:	Percent	1 HR @ 300 F
FLANNABILITY	. 0.0	0.0	0.0		Max:	IB/NIB	PMVSS-302
BON	.31	.50			Hax:	Percent	
BIAS	.75	.75			Hax:	Percent	
WRIGHT	5.02	4.99	0.00	Hin:	Max:	OZ/YD2	ASTH-D-3776
HIDTE	70.5	71.0	0.0	Min:	Max:	INCHES	ASTN-D-3774
ends	58.3	58.3	0.0	Min:	Hax:	EPI	ASTH-D-3775
PICKS	62.6	62.5	0.0	Nin:	Max:	PPI	ASTH-D-3775
BODY THICKNESS	.010	.010	0.000	Hin:	Wax:	Inches	ASTM-D-1777
DYHAHIC AIR PERM ADAP				Nin:	Max:	m/sec	T.B.D.
EXPONENT				Min:	Hax:		T.B.D.

lot: 21138

Page 2 of 2

laterial: W4934-03-902	6				100. 21134		TEST
Piece No.		17540		Specification Requirement		unit of Neasure	PROCEDURES
Sample No.	17530	1/340		Nin:		PSI	ASTH-D-3786
ULLEH BURST NET						off units	FTM 191
A.	7.1	6.8		Min:	Max:		
	.5	.6			Max:	Percent	JPS 701
EXTRACTABLES (3)	 			Hin: 4		ALTEC CROCK UNITS	JPS 701
ye stale	5	5				CZN	ASTM-D-737
AIR PERMEABILITY	2.04	2.00	0.00	Hin:	Max:		
CANTILIVER STIFFNESS WARP			0.0	Nin:	Hay:	HG/CH2	ASTH-D-4032
	0.0	0.0	0.0			HG/CH2	ASTH-D-4032
FILL	0.0	0.0	0.0	Hin:	Kax:	107-	
CIRCULAR BEND WARP		1 200	0.000	Min:	Hax:	Pounds	ASTN 4032
	.800	.800	0.000			Pounds	ASTH 4032
PILL	.800	.800	0.000	Nin:	Har:	Longon	

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOHBE LAB DIRECTOR (864) 240-2624

r-1065 (5/96)

[WI-2021]

THIS REPORT HAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE PERHISSION OF THE ORIGINATOR.

INFORMATION ONLY

TO: FRANCISCO BEDOYA	DATE
***************	:=====================================
I. MARKETING .	C/R# 10-386
CUSTOMER:	CUST. S/#C/R#/C
48355	Plain ENDUSE: Juhan LEVEL 7
SCFTI S/#: WEAVE:	Than ENDUSE This
<u> </u>	YES NO
(11211) 110111	MIN./NOM.) WARP SIZE OK
ENDS/IN: 41-43 44.	SPUN YARN TINT
PICKS/IN: 48-50 49	HT TEN REOD
WIDTH: 69.5-76.5 65-	-6
1 - 1) 2 + T443 (OLD/NEW
WARP: 420/68/R20 Nylo	n ulifon
ETT. 4124/18/1225 A/4lm	Dupont 1743 (12) Prox OLDYNEW
FILL TACTOR	5011
SCFTI PROCESS:	n Dufort 121 (12)
	CUT LENGTH RANGE 500
GREIGE HEATSET IN THE GR.	MIN PC. LENGTH 200
HEATSET IN THE GR. SCOUR & HEATSET	SPLICES ALLOWED
APPLY & FINISH	PACKAGING, Topical tube
April & Linton	in the many thatic
DESCRIBE FINISH:	FINISH CODE: 9026
	DATED:
	# TRD (TEST REQ. Y/N) (CERT REQ Y/N)
COPY OF CUST. SPEC ATTACHED	(TEST REQ. 17H)
DEPT#: 10	
II. TECHNICAL MUTTEL	PICKS - YES/NO EQUIVALENT PICKS: P/P (WARP IN PLANT & NEW YARNS ONLY)
TYPE LOOM: Dordier Housest	(WARP IN PLANT & NEW YARNS ONLY)
YARDS PER BEAM: PLA	
CONST IN LOOM: REED WIDTH:	74.40" SLEY: 40.0" OFF LM PICKS: 490
CONST. IN LOCAL MARKET IN	- t T 74 3
WARP:	dr.(1-19)
	supert 7-743 PICK and PICK
FILLING: 315/96/870 MYLON V	FILLING YDS/LB: 10.600 = 420 4 . 14.150 = 31
WARP YDS/LB: 60.400 EST WARP CONTRACTION:	FILLING YDS/LB: 10.000 = 400 7 . 17.00 = 51.
EST. WARP CONTRACTION:	
REMARKS:	sarple fret
	Romai DATE: 5-21-99
signature:	
PROCESSES REQUIRED: (CIRCLE A	FINISHING FINAL TESTING
PREPARATION WEAVING	FINISHING
WINDING	BATCH
	SCOUR - JIG/CONT. ANSPECT CUST. LOT PACK NONSTD.
WARPING (IN/OUT)	CAN DRI CONTACT HT SET SHIP PPAP
(DIOCIL) LIZITO ()	CALENDER TENTER ANNUAL
BEAMING/SHASHING	QUAL.
	======================================

. ENGINEERING	OTHER:		=======================================	
COST DEPAR	الله الله الله الله الله الله الله الله	DATE FW	IDED:	
S/LOOM	TARGET CONTRIBUTION LOOM/WK YD	Company of the Compan	·	•
ST: R./YD:	FX/YD:B/E/YD:	_ MIN. YD:	TAR.YD:	
DN PRICE:	WARP: FILL:			
SCLAIMERS/COMM	low Trial explus	torest de	mahens miona	Sufa Shar
B) If Su		coma kieto		sorp
and	4311			
3.			·	
.======================================	TE		DATE:	
SUBMITTED BY	J. Horson Joen	St. Denk	DATE:	#
APPROVED BY MA	RKETING MGR. Jon Bol for 8		DATE:	
			•	
APPROVED BY DI	/ /		DATE:_	*****
APPROVED BY DI	/ /		DATE:_	

(RE: QMS-102)

- +412 (BETTEBEEL 12/97

CERTIFICATE OF COMPORNANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Pabric Tech. Inc. Dumean Plant

Greenville, SC

TEST CONDITIONS: 72'F / 65% R.B.

CUSTOMER ID:

WINDSTIF - WADS1-01-9026

LOT: 20701

TEST DATE:

SPECIFICATION: TED

MATERIAL: W4951-01-9026		LOT:	: 20701 TEST DATE:				
Piece Bo. Sample Bo.	8619T			Specification Requirement		UNIT OF MRASURE	TEST PROCEDURES
GRAB TRESILE WARP	430	0	O	Nin:		Pounds	ASTR-D-5034
PTLLIEG	424	0	0	Hin:		Pounds	ASTH-D-5034
elongation Warp	34	0	0	Nin:	Nax:	Percent	λSTM-D-5034
PILLING	43	0	0	Min:	Wax:	Percent	ASTH-D-5034
PORGUE TEAR	47	. 0	0	Kin:		Pounds	∆STH-D-2261
FILLING	41	0	0	Min:		Pounds	ASTH-D-2261
TRAPEZOID TEAR WARP	0	0	0	Kin:		Pounds	ASTH-D-4533
PILLING	0	0	O	Min:		Pounds	ASTH-D-4533
SHRIMAAGE NARP	1.25	0.00	0.00		Hax:	Percent	1 HR @ 300 F
FILLDIG	.0.00	0.00	0.00		Hax:	Percent	1 HR 8 300 P
PLANNABILITY	0.0	0.0	0.0		Mar:	IN/NIR	PMVSS-302
108	.56			·	Hax:	Percent	
TAS	.50				Haz:	Percent	
RIGHT	5.10	0.00	0.00	Min:	Hax:	02/YD2	ASTR-D-3776
IDTR	66.0	0.0	0.0	Min:	Hax:	TRCHES	ASTH-D-3774
IDS	14.5	0.0	0.0	Min:	Nax:	EPI	ASTH-D-3775
TCIS	48.3	0.0	0.0	Min:	Kar:	PPI	ASTM-D-3775
ODY THICRIESS	.012	0.000	0.000	Hin:	Hax:	Inches	ASTH-D-1777
YEAHIC AIR PERM			*	Min:	Hax:	ME/Sec	T.B.D.
EXPONENT				Min:	Hax:		T.B.D.

Material: W4951-01-9026

lot: 20701

Page 2 of 2

Piece No.	86197			Specification Requirement		unit of Measure	TEST PROCEDURES
MULLEN BURST HET				Kin:		PSI	ASTM-D-3786
p£ .	7.0			Mín:	Wax:	pH units	FTM 191
EXTRACTABLES (1)	.5				Max:	Percent	JPS 701
DYE STAIN	5		·	Hin:	4	AATCC CROCK UNITS	JPS 701
AIR PERMEABILITY	6.04	0.00	0.00	Kin:	Hax:	СРН	ASTH-D-737
CANTILEVER STIFFNESS WARP	0.0	0.0	0.0	Kin:	Hax:	NG/CH2	ASTN-D-4032
FILL	0.0	0.0	0.0	Kin:	Hax:	HG/CH2	ASTH-D-4032
CIRCULAR BEND WARP	0.000	0.000	0.000	Min:	Hax:	Pounds	ASTN 4032
FILL	0.000	0.000	0.000	Nin:	Hax:	Pounds	AST# 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material appeal finations around as noted with an asterisk (*).

ROBERT N. HOLCOMBE LAB DIRECTOR (864) 240-2624

F-1065 (5/96)

[WI-2021]

THIS REPORT HAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE PERHISSION OF THE ORIGINATOR.